

ABSTRACT

An apparatus and method for phase modulating SYNC codes transmitted over downlink pilot time slots DwPTSs when a primary common control physical channel P-CCPCH is transmitted using transmit diversity in an NB-TDD CDMA mobile communication system. The apparatus and method transmits and receives the P-CCPCH signal using the transmit diversity by providing a diversity indicator for changing phase variation of the SYNC codes included in the DwPTSs.